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rain forest of almost tropical luxuriance to xerophytic sand dunes. The ecological viewpoint is maintained throughout, although the fact that the author is writing for a general audience seems to have led him from his usual scientific accuracy to many teleological interpretations. Still, the story of the New Zealand plants is told in so clear and interesting a manner that many botanists of other lands will find the little volume useful in imparting a picture of the vegetation of that distant country. For local use it cannot but be of the greatest service to teachers who are seeking an intelligent appreciation of their surroundings. The needs of the teaching profession are further recognized by a chapter on the cultivation of indigenous plants on the school grounds and in the school garden. The botanist will be interested, among other things, in the considerable number of plants with juvenile and adult leaf forms. The value of the volume is much increased by 70 illustrations from photographs of some of the most remarkable plants described.—GEO. D. FULLER.

North American Flora.⁹—Volume XXV, part 3, continues the treatment of the Geraniales and includes an elaboration of the Rutaceae and Surianaceae by PERCY WILSON, the Simaroubaceae by JOHN KUNKEL SMALL, and the Burseraceae by JOSEPH NELSON ROSE. New species, chiefly from Cuba and Mexico, are described in the following genera: *Ravenia* (1), *Zanthoxylum* (3), *Spathelia* (1), *Amyris* (1), *Elaphrium* (7), and *Icica* (10). One new genus (*Castalaria*) of the *Simaroubaceae* is proposed, based on *Castela Nicholsoni* Hook., to which are referred 8 species, 2 from Cuba being new to science.—J. M. GREENMAN.

Symbolae Antillanae.¹⁰—The publication of a third fascicle completes the sixth volume of Professor URBAN's well-known work, *Symbolae Antillanae*. The fascicle recently issued continues the treatment of the Orchidaceae by A. COGNIAUX. There are recognized 96 genera, to which are referred 505 species, 28 being new to science. The excellent keys, careful and full descriptions, copious citation of exsiccatae, and complete synonymy with bibliography, make this a thoroughly scientific and standard work on the Orchidaceae of the Antillean region.—J. M. GREENMAN.

Handbook of deciduous trees.—The tenth part (fifth section of second volume) of SCHNEIDER's *Handbuch* has just appeared,¹¹ the preceding part

⁹ North American Flora, Vol. XXV, part 3, pp. 173-261. New York Botanical Garden. May 6, 1911.

¹⁰ URBAN, I., *Symbolae Antillanae seu fundamenta florae Indiae Occidentalis*. Vol. VI, fasc., 3., pp. 433-721. Leipzig: Fratres Borntraeger. 1910.

¹¹ SCHNEIDER, C. K., *Illustriertes Handbuch der Laubholzkunde*. Zehnte Lieferung (fünfte Lieferung des zweiten Bandes). Imp. 8vo. pp. 497-757. figs. 329-419. Jena: Gustav Fischer. 1911. M 5.